

Certificate of Conformity

No. ESY 099567 0066 Rev. 00

Holder of Certificate: **AISWEI Technology (Shanghai) Co., Ltd.**
Room 905B,757 Mengzi Road
Huangpu District
200023 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
(Grid-connected Hybrid Inverter)

Model(s): **ASW3000H-S2, ASW3680H-S2**

Parameters: See page 3

Applicable standards: EN 50549-1:2019/AC:2019
RfG:2016
NC RfG:2018
PTPIREE:2021

This Certificate of Conformity confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290223088001

Date, 2022-07-21



(Billy Qiu)

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Technical Certifier (Billy Qiu) appointed by Certification Body TÜV SÜD Product Service GmbH performed assessment of the products listed in this certification in the place: Ridlerstraße 65, 80339 Munich, Germany.

<p>Test requirement</p>	<p>The certification complies with the requirements of the following documents for Type A PGM installations:</p> <p>EN 50549-1:2019 Wymagania dla instalacji wytwórczych przeznaczonych do równoległego przyłączenia do publicznych sieci dystrybucyjnych -- Część 1: Przyłączenie do sieci dystrybucyjnej nN -- Instalacje wytwórcze aż do typu B włącznie <i>(EN: Requirements for generating plants to be connected in parallel with distribution networks - Part 1: Connection to a LV distribution network - Generating plants up to and including Type B)</i></p> <p>RfG:2016 Rozporządzenie Komisji (UE) 2016/631 z dnia 14 kwietnia 2016 r. ustanawiające kodeks sieci dotyczący wymogów w zakresie przyłączenia jednostek wytwórczych do sieci (Dz.U. UE L 112/1 z 27.4.2016) <i>(EN: Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for the connection of generating units to the Network (OJ EU L 112/1 of 27.4.2016))</i></p> <p>NC RfG:2018 Wymogi Ogólnego Stosowania wynikające z rozporządzenia komisji UE 2016/631 z dnia 14 kwietnia 2016 r. ustanawiającego kodeks sieci dotyczący wymogów w zakresie przyłączenia jednostek wytwórczych do sieci (NC RfG, 2018) - zatwierdzone Decyzją Prezesa Urzędu Regulacji Energetyki DRE.WOSE.7128.550.2.2018.ZJ z dnia 2 stycznia 2019 r. <i>(EN: General applicability requirements resulting from EU commission regulation 2016/631 of of 14 April 2016 establishing a network code concerning the requirements for with regard to the connection of generating units to the grid (NC RfG-2018)- approved by the Decision of the President of the Energy Regulatory Office DRE.WOSE.7128.550.2.2018.ZJ dated 2 January 2019.)</i></p> <p>PTPiREE:2021 Warunki i procedury wykorzystania certyfikatów w procesie przyłączenia modułów wytwarzania energii do sieci elektroenergetycznych V1.2 <i>(EN: Conditions and procedures for the use of certificates in the process of connecting modules generation modules to the power grid V1.2)</i></p>
<p>Type of certification programme</p>	<p>1(a) according to EN ISO/IEC 17067</p> <p>Based on Photovoltaics and Grid Integration Certification Program (Revision 6, Dated 5 Dec 2021) for Poland Grid Code</p>
<p>Manufacturer & Address of manufacturing site</p>	<p>AISWEI Technology (Shanghai) Co., Ltd. Room 905B,757 Mengzi Road, Huangpu District 200023 Shanghai, PEOPLE'S REPUBLIC OF CHINA</p>
<p>Software version</p>	<p>Main DSP: V610-02003-00, Slave DSP: V610-60009-00 Firmware version (settings for grid protection and power control): V610-10008-02</p>
<p>Certificate expiry date</p>	<p>2027-07-20</p>

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Parameters:

Model	ASW3000H-S2	ASW3680H-S2
PV input parameters :		
Max. input voltage	550 Vd.c.	
Max. input current	2*16 Ad.c.	
Isc PV (absolute maximum)	2*20 Ad.c.	
MPPT Voltage range	40-530 Vd.c.	
Battery port parameters:		
Battery type	Li-ion	
Rated battery voltage	48 Vd.c.	
Battery voltage rang	40-60 Vd.c.	
Max. Charge/discharge current	100 Ad.c./100 Ad.c.	
EPS output parameters :		
Rated output Apparent power	5000 VA	
Max. output Apparent power	5000 VA	
Rated output voltage	230 Va.c.	
Rated output frequency	50 Hz	
Max. output current	21.7 Aa.c.	
AC output parameters (Grid side) :		
Rated grid output active power	3000 W	3680 W
Rated grid output apparent Power	3000 VA	3680 VA
Max. grid output apparent Power	3000 VA	3680 VA
Rated output voltage	230 Va.c.	
Rated output frequency	50 Hz	
Max output current	13.6 Aa.c.	16 Aa.c.
Power factor	0.8 ind...0.8 cap	

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Scope of assessment and results

Clause of NfG	Requirement	Type A	Type B	Type C	Type D	Assessment Result
Article 13.1 (a)	Frequency range	Y	-	-	-	Pass
Article 13.1 (b)	Ability to withstand the frequency of change of frequency (RoCoF)	Y	-	-	-	Pass
Article 13.2	Limited frequency sensitive mode — overfrequency (LFSM-O)	Y	-	-	-	Pass
Article 13.4 & 13.5	Maximum power capability reduction with falling frequency	Y	-	-	-	Pass
Article 13.6	Remote ceasing active power	Y	-	-	-	Pass
Article 13.7	Automatic connection to the network	Y	-	-	-	Pass